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	WARNICK & D'ALES	MASKULINSKI, MICHAEL C		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/973,748	DALLIN, MICHAEL DEAN	
Office Action Summary	Examiner	Art Unit	
	Michael C Maskulinski	2113	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fror , cause the application to become ABANDON	imely filed ays will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on <u>06 Ja</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pr		
Disposition of Claims			
4) ☐ Claim(s) 1-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-29 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.		
Appliçation Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the correct of the contract of the correct of the	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the international Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicat ity documents have been receive (PCT Rule 17.2(a)).	ion No ed in this National Stage	
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Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		

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Final Office Action

Claim Rejections - 35 USC § 102

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 1-5, 8, 10-20, and 23-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith, Jr., U.S. Patent 5,754,755.

Referring to claims 1 and 10:

- a. In column 2, lines 28-30, Smith, Jr. discloses that an output file generator receives an indication of a test template file that has test instructions that contain placeholders (providing a predefined template).
- b. In column 2, lines 32-34, Smith, Jr. discloses that the output file generator receives an ordered list of customizing files that have application-specific placeholder values (providing a table having test data for the software product).
- c. In column 2, lines 34-42, Smith, Jr. discloses that if a test instruction contains a placeholder, then the output file generator searches the customizing files according to the ordered list for a first placeholder value for the placeholder of the test instruction. When such a placeholder value is found, the output file generator inserts the placeholder value into the test instruction. The output file generator then stores the test instruction into the application-specific test script (running a test generation system with the template to process the test data and to automatically generate a test script file).

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d. In column 2, lines 42-44, Smith, Jr. discloses that after the generating is complete, this application-specific test script can then be used to test the application (running the software product while using the generated test script file to test the software product).

Referring to claim 2, in column 2, lines 34-42, Smith, Jr. discloses that if a test instruction contains a placeholder, then the output file generator searches the customizing files according to the ordered list for a first placeholder value for the placeholder of the test instruction. When such a placeholder value is found, the output file generator inserts the placeholder value into the test instruction. The output file generator then stores the test instruction into the application-specific test script (the test script file contains at least one test case generated based upon the test data and the template).

Referring to claim 3, in column 4, lines 43-45, Smith, Jr. discloses that the test template file contains a file type indicator, common macro instructions (a type template having at least one macro), control commands, and placeholders (wherein the type template provides a key for the test generation system to generate the at least one test case based upon the test data).

Referring to claims 4, 13, 20, and 27, in column 4, lines 43-45, Smith, Jr. discloses that the test template file contains a file type indicator, common macro, control commands, and placeholders (an output template, wherein the output template has at least one macro and dictates a format of the generated test script file).

Referring to claims 5, 14, 18, and 25, in column 3, lines 5-28, Smith, Jr. discloses a control command and instruction (an actor and a test step) and Smith, Jr. discloses a placeholder (a starting point).

Referring to claim 8, in Figure 1, Smith, Jr. discloses that the test generation system and the software product reside on different systems.

Referring to claims 11 and 26, in column 4, lines 43-45, Smith, Jr. discloses that the test template file contains a file type indicator, common macro instructions, control commands, and placeholders (a type template that provides a key for the test generation system to generate the at least one test case based upon the test data).

Referring to claim 12, in column 4, lines 43-45, Smith, Jr. discloses that the test template file contains a file type indicator, common macro instructions (the type template includes at least one macro), control commands, and placeholders.

Referring to claim 15, in column 2, lines 34-42, Smith, Jr. discloses that if a test instruction contains a placeholder, then the output file generator searches the customizing files according to the ordered list for a first placeholder value for the placeholder of the test instruction. When such a placeholder value is found, the output file generator inserts the placeholder value into the test instruction. The output file generator then stores the test instruction into the application-specific test script (the test script file includes at least one test case automatically generated by the test generation system based upon the test data).

Referring to claim 16:

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- a. In column 2, lines 28-30, Smith, Jr. discloses that an output file generator receives an indication of a test template file that has test instructions that contain placeholders (entering a predefined type template into a test generation system).
- b. In column 4, lines 56-65, Smith, Jr. discloses a template with control commands (entering a predefined output template into the test generation system).
- c. In column 2, lines 32-34, Smith, Jr. discloses that the output file generator receives an ordered list of customizing files that have application-specific placeholder values (entering a table having test data for the software product into the test generation system).
- d. In column 2, lines 34-42, Smith, Jr. discloses that if a test instruction contains a placeholder, then the output file generator searches the customizing files according to the ordered list for a first placeholder value for the placeholder of the test instruction. When such a placeholder value is found, the output file generator inserts the placeholder value into the test instruction. The output file generator then stores the test instruction into the application-specific test script (running the test generation system with the type template and the output template on a first computer system to process the test data to automatically generate an executable test script file).
- e. In column 2, lines 42-44 and in Figure 1, Smith, Jr. discloses that after the generating is complete, this application-specific test script can then be used to test the application (running the software product on a second computer while

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using an automation tool to run the executable test script file to test the software product).

Referring to claim 17:

- a. In column 2, lines 28-30, Smith, Jr. discloses that an output file generator receives an indication of a test template file that has test instructions that contain placeholders. In column 4, lines 56-65, Smith, Jr. discloses a template with control commands. In column 2, lines 32-34, Smith, Jr. discloses that the output file generator receives an ordered list of customizing files that have application-specific placeholder values (an input system for receiving a type template, an output template, and a table having test data for the software product).
- b. In column 2, lines 34-42, Smith, Jr. discloses that if a test instruction contains a placeholder, then the output file generator searches the customizing files according to the ordered list for a first placeholder value for the placeholder of the test instruction. When such a placeholder value is found, the output file generator inserts the placeholder value into the test instruction. The output file generator then stores the test instruction into the application-specific test script. In column 2, lines 42-44 and in Figure 1, Smith, Jr. discloses that after the generating is complete, this application-specific test script can then be used to test the application (a process system for processing the test data to automatically generate a test script file based upon the type template and the output template, wherein the generated test script file is used to test the software product).

Referring to claim 19, in column 4, lines 43-45, Smith, Jr. discloses that the test template file contains a file type indicator, common macro instructions, control commands, and placeholders (the type template provides a key for generating the test script file based upon the test data). Further, in column 3, lines 5-28, Smith, Jr. teaches that the tests script file includes at least one test case.

Referring to claim 23:

- a. In Figure 1, Smith, Jr. discloses a test generation system stored on a first computer system.
- b. In column 2, lines 28-30, Smith, Jr. discloses that an output file generator receives an indication of a test template file that has test instructions that contain placeholders. In column 4, lines 56-65, Smith, Jr. discloses a template with control commands. In column 2, lines 32-34, Smith, Jr. discloses that the output file generator receives an ordered list of customizing files that have application-specific placeholder values (means for receiving a type template, an output template, and a table having test data for the software product).
- c. In column 2, lines 34-42, Smith, Jr. discloses that if a test instruction contains a placeholder, then the output file generator searches the customizing files according to the ordered list for a first placeholder value for the placeholder of the test instruction. When such a placeholder value is found, the output file generator inserts the placeholder value into the test instruction. The output file generator then stores the test instruction into the application-specific test script. In column 2, lines 42-44 and in Figure 1, Smith, Jr. discloses that after the

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generating is complete, this application-specific test script can then be used to test the application (means for processing the test data, based upon the type template and the output template, to automatically generate an executable test script file having at least one test case).

- f. In Figure 1, Smith, Jr. discloses a means for outputting the executable test script file.
- g. In column 2, lines 42-44 and in Figure 1, Smith, Jr. discloses that after the generating is complete, this application-specific test script can then be used to test the application (an automation toll for running the executable test script file to test the software product, wherein the software product is stored on a second computer system).

Referring to claim 24:

- a. In column 4, lines 40-41, Smith, Jr. discloses that the output file generator may be stored as instructions on a computer-readable medium such as a disk (a program product, stored on a recordable medium, for testing a software product).
- b. In column 2, lines 28-30, Smith, Jr. discloses that an output file generator receives an indication of a test template file that has test instructions that contain placeholders. In column 4, lines 56-65, Smith, Jr. discloses a template with control commands. In column 2, lines 32-34, Smith, Jr. discloses that the output file generator receives an ordered list of customizing files that have application-specific placeholder values (an input system for receiving a type template, an output template, and a table having test data for the software product).

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c. In column 2, lines 34-42, Smith, Jr. discloses that if a test instruction contains a placeholder, then the output file generator searches the customizing files according to the ordered list for a first placeholder value for the placeholder of the test instruction. When such a placeholder value is found, the output file generator inserts the placeholder value into the test instruction. The output file generator then stores the test instruction into the application-specific test script. In column 2, lines 42-44 and in Figure 1, Smith, Jr. discloses that after the generating is complete, this application-specific test script can then be used to test the application (a process system for processing the test data to automatically generate a test script file based upon the type template and the output template, wherein the generated test script file is used to test the software product).

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Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 6, 7, 9, 21, 22, 28, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith, Jr., U.S. Patent 5,754,755.

Referring to claims 6, 21, and 28, in column 2, lines 42-44, Smith, Jr. discloses that the application-specific test script can be used to test the application. However, Smith, Jr. doesn't explicitly disclose automatically running the test script with an automation tool. In column 1, lines 23-25, Smith, Jr. discloses in the Background of the Invention that some conventional testing procedures involve first manually writing a test

script and then using that test script to automatically test the application program. It would have been obvious to one of ordinary skill at the time of the invention to include the automatic testing of the application program into the system of Smith, Jr. A person of ordinary skill in the art would have been motivated to make the modification because of the importance of thorough testing and because such testing can be very time-consuming, the application developers have developed extensive automated testing procedures (see Smith, Jr.: column 1, lines 17-21).

Referring to claims 7, 22, and 29, in column 2, lines 42-44, Smith, Jr. discloses that the application-specific test script can be used to test the application. However, Smith, Jr. doesn't explicitly disclose running the test script manually by a user. The Examiner takes Official Notice that in the art of software testing it is well known to use a stepping procedure to step through a program in order to debug a program. This is done manually by a user. It would have been obvious to one of ordinary skill at the time of the invention to include the manual testing of the application program into the system of Smith, Jr. A person of ordinary skill in the art would have been motivated to make the modification because manually stepping through a program's instructions allows a user to find specific lines of code that caused the problem.

Referring to claim 9, in column 4, lines 40-41, Smith, Jr. discloses that the output file generator may be stored as instructions on a computer-readable medium such as a disk. However, Smith, Jr. discloses that the test generation system and the software product reside on the same computer system. It would have been obvious to one of ordinary skill at the time of the invention to use the disk to install the output file

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generator instructions onto the same computer system that the software product resides on. A person of ordinary skill in the art would have been motivated to make the modification because the whole point of storing instructions on a disk is so that it can be run and stored anywhere.

Response to Arguments

- 5. Applicant's arguments filed January 6, 2005 have been fully considered but they are not persuasive.
- 6. On pages 8-9, under section A. Rejection of Claims 1-5, 8, 10-20, and 23-27 under 35 U.S.C. 102(b), the Applicant argues, "Applicant submits that Smith, Jr. fails to teach a table having test data fro the software product. Instead, the output file generator in Smith, Jr. '... receives an ordered list of customizing files that have application-specific placeholder values.' Col. 2, lines 32-34 However, as shown in Fig. 2, the ordered list of customizing files in Smith, Jr. is not a table, but merely a set of program instructions that indicate the order in which the files are to be searched, with each instruction having the command '#INCLUDE' and a file name. Col. 5, lines 6-13; Fig. 2, reference numbers 202-204." The Examiner respectfully disagrees. Figure 2 illustrates a sample test template file. There isn't a table or an ordered list of customizing files even shown in Figure 2. The Examiner is unsure as to what the Applicant relies on in Figure 2. Further, in column 4, lines 63-65, Smith, Jr. discloses that the output file generator replaces a placeholder by searching for a placeholder value with that placeholder in the ordered list of customizing files. The ordered list of customizing files is a table. It is a list that is searched by an index value and then

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returns a corresponding value or function. A table works the same way when you search it, for example, a person would go down a column looking for a value and then look across the row to return the corresponding value. The Applicant is also reminded that a table can be a single entry.

On pages 9-10, under section A. Rejection of Claims 1-5, 8, 10-20, and 23-27 under 35 U.S.C. 102(b), the Applicant argues, "As such the ordered list of Smith, Jr. does not have at least one row of potential test cases. Furthermore, Smith, Jr. does not teach that each test case includes an actor, a starting point, and a test step." The Examiner respectfully disagrees. In Figures 3A-3C, Smith, Jr. discloses potential test cases that include an actor, a starting point, and a test step. Each test case is in the ordered list of files, therefore, the row includes an actor, a starting point, and a test step.

On pages 10-11, under section B. Rejection of Claims 6, 7, 9, 21, 22, 28, and 29

under 35 U.S.C. 103(a), the Applicant argues, "this factual assertion is unsubstantiated and is not properly based upon common knowledge. Furthermore, the test script generated by Smith, Jr., instead of automatically running with an automation tool, appears to be written in a macro language that is capable of running independently of an automation tool." The Examiner respectfully disagrees. The section cited by the Examiner as teaching the automation tool discloses a conventional testing procedure. This is clearly common knowledge. Further, the motivation for using the test script automatically comes from Smith, Jr. The Examiner strongly recommends that the Applicant re-read the rejection above and the reference of Smith, Jr. Further, the Examiner believes that the assertion made by the Applicant is unsubstantiated and is

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not properly based upon common knowledge and requests that the Applicant further explain how the test script is capable of being run independently of an automation tool.

On page 11, under section B. Rejection of Claims 6, 7, 9, 21, 22, 28, and 29 under 35 U.S.C. 103(a), the Applicant argues, "this factual assertion is unsubstantiated and is not properly based upon common knowledge. Furthermore, the test script generated by Smith, Jr., instead of being a documentation file that is manually run by a user, appears to be written in a macro language that is capable of running independently of a user." The Examiner respectfully disagrees. In the art of computer programming it is notoriously well-known to single step through a program in order to find errors. As requested the Examiner has provided U.S. Patent 4,177,520 and U.S. Patent 5,121,472 to show single-stepping and its application in debugging programs. The Examiner also requests that the Applicant explain how the test script of Smith, Jr. in Figure 2 is both capable of being run independently of an automation tool, as stated on page 10 of the Applicant's arguments and being run independently of a user as stated on page 11 of the Applicant's arguments. It appears that the Applicant has either admitted that the test script is capable of being run either automatically or manually or that the test script is being run by something or someone that is neither machine nor human.

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C Maskulinski whose telephone number is (571) 272-3649. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert W Beausoliel can be reached on (571) 272-3645. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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